Exhibit 1

NCBI — Nucleotide

PubMed | Nucleotide | Protein | Genome | Structure | PopSet | Taxonomy | OMIM | Boc

Search [Nucleotide ▾] for [   ] [Go] [Clear]

Limits | Preview/Index | History | Clipboard | Details

Display [default ▾] [Save] [Text] | Add to Clipboard

☐ 1: NM_001400. Homo sapiens endo...
[gi:13027635]

Related Sequences, OMIM, Protein, PubMed, Taxonomy, UniSTS, LinkOut

```
LOCUS       NM_001400              2753 bp    mRNA    linear   PRI 16-FEB-2001
DEFINITION  Homo sapiens endothelial differentiation, sphingolipid
            G protein-coupled receptor, 1 (EDG1), mRNA.
ACCESSION   NM_001400
VERSION     NM_001400.2  GI:13027635
KEYWORDS    .
SOURCE      human.
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 2753)
  AUTHORS   Hla,T. and Maciag,T.
  TITLE     An abundant transcript induced in differentiating human endothelial
            cells encodes a polypeptide with structural similarities to
            G-protein-coupled receptors
  JOURNAL   J. Biol. Chem. 265 (16), 9308-9313 (1990)
  MEDLINE   90264425
REFERENCE   2  (bases 1 to 2753)
  AUTHORS   An,S., Bleu,T., Huang,W., Hallmark,O.G., Coughlin,S.R. and
            Goetzl,E.J.
  TITLE     Identification of cDNAs encoding two G protein-coupled receptors
            for lysosphingolipids
  JOURNAL   FEBS Lett. 417 (3), 279-282 (1997)
  MEDLINE   98072391
REFERENCE   3  (bases 1 to 2753)
  AUTHORS   Lee,M.J., Van Brocklyn,J.R., Thangada,S., Liu,C.H., Hand,A.R.,
            Menzeleev,R., Spiegel,S. and Hla,T.
  TITLE     Sphingosine-1-phosphate as a ligand for the G protein-coupled
            receptor EDG-1
  JOURNAL   Science 279 (5356), 1552-1555 (1998)
  MEDLINE   98155258
COMMENT     REVIEWED REFSEQ: This record has been curated by NCBI staff. The
            reference sequence was derived from AF233365.1, M31210.1.
            On Feb 21, 2001 this sequence version replaced gi:4503454.
            Summary: The protein encoded by this gene is structurally similar
            to G protein-coupled receptors and is highly expressed in
            endothelial cells.  It binds the ligand sphingosine-1-phosphate
            with high affinity and high specificity, and suggested to be
            involved in the processes that regulate the differentiation of
            endothelial cells.  Activation of this receptor induces cell-cell
            adhesion.
            COMPLETENESS: complete on the 3' end.
FEATURES             Location/Qualifiers
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                     /db_xref="taxon:9606"
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                            /db_xref="MIM:601974"
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                            /allele="G"
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             polyA signal   2733..2738
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           61 ctt gccctg cttgagcgag gctgcggttt ccgaggccct ctccagccaa ggaaaagtta
          121 cac aaaaagc ctggatcact catcgaacca cccctgaagc cagtgaaggc tctctcgcct
          181 cgc gctctag cgttcgtctg gagtagcgcc accccggctt cctggggaca cagggttggc
          241 acc atgggc ccaccagcgt cccgctggtc aaggcccacc gcagctcggt ctctgactac
          301 gtc actatg atatcatcgt ccggcattac aactacacgg gaaagctgaa tatcagcgcg
          361 gac aaggaga acagcattaa actgacctcg gtggtgttca ttctcatctg ctgctttatc
          421 atc ctggaga acatctttgt cttgctgacc atttggaaaa ccaagaaatt ccaccgaccc
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         1141 gct gtgctca actccggcac caaccccatc atttacactc tgaccaacaa ggagatgcgt
         1201 cgg gccttca tccggatcat gtcctgctgc aagtgcccga gcggagactc tgctggcaaa
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```

handwritten: Goetzl primer 1 to EDG-1

handwritten: initiation codon

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1441 ccaccccagt gtttggaaaa aaatctctgg gcttcgactg ctgccaggga ggagctgctg
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//

Revised: October 24, 2001.